

# PWG2-50/100K-EX

## Solar+Storage Hybrid Inverters



### Features

#### Solar+Storage Hybrid Inverters

- Photovoltaic DC coupled
- Photovoltaic can be connected to a maximum of twice the capacity of the device

#### High Efficiency & Stability

- High stability, modular design support N+1
- With MPPT function to enhance system power generation

#### Independent Operation

- Self-contained solar storage operation strategy
- Support self-generation, micro-grid application

#### Safety and reliability

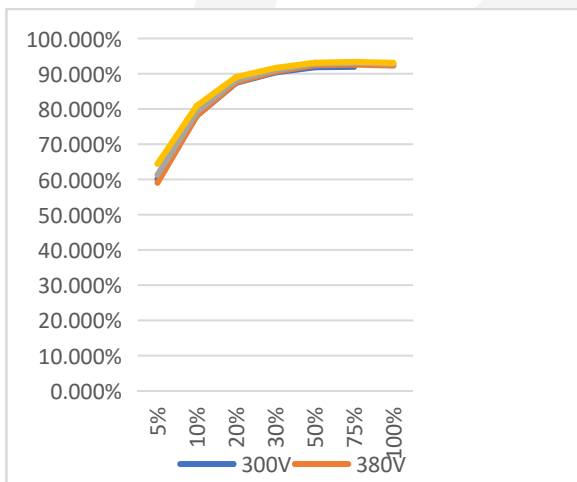
- Support communication with BMS, EMS system
- Support IP54 protection level

# Specification

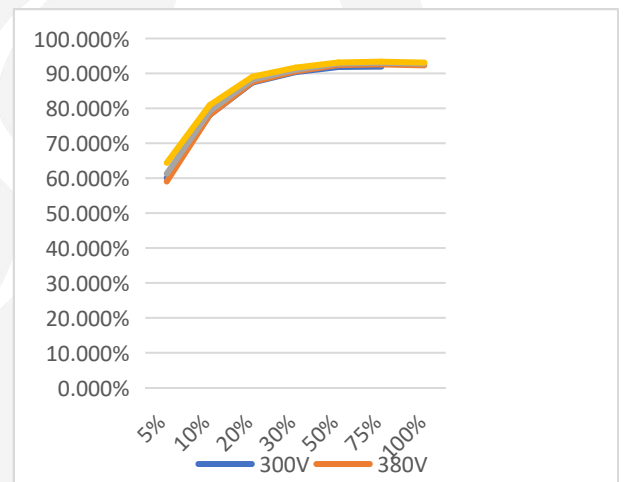
Model	PWG2-50K-EX	PWG2-100K-EX
<b>Utility-interactive Mode</b>		
Battery voltage range	250~520Vdc	
Batter DC Max Current	150A	300A
PV Maximum open circuit voltage	900Vdc	
PV Voltage Range	520~800Vdc	
PV DC. Max Current	192A	384A
AC voltage	400(±15%) Vac	
AC current	72A	144A
Nominal power	50kVA	100kVA
AC frequency	50/60Hz(±2.5Hz)	
Output THDI	≤3%	≤3%
AC PF	Listed: 0.8~1 leading or lagging (Controllable)	
	Actual: 0.1~1 leading or lagging (Controllable)	
<b>Stand-alone Mode</b>		
Battery voltage range	250~520Vdc	
Battery DC Max Current	150A	300A
PV Maximum open circuit voltage	900Vdc	
PV Voltage Range	520~800Vdc	
PV DC. Max Current	192A	384A
AC output voltage	400(±10% configurable)Vac	
AC output current	72A (Max 79A)	144A(Max 159A)
Nominal AC output power	50kVA	100kVA
AC Max Power	55kVA	110kVA
Output THDu	≤2%	≤2%
AC frequency	50/60(±2.5 configurable) Hz	
AC PF	Listed: 0.8~1 leading or lagging (Load-depend)	
	Actual: 0.1~1 leading or lagging (Load-depend)	
Overload Capability	105%~115%	10min
	115%~125%	1min
	125%~150%	200ms

# Specification

Physical		
Cooling	Forced air cooling	
Noise	<75dB	
Enclosure	IP20	
Max elevation	3000m/10000feet (>3000m/10000feet derating)	
Operating temp.	-20°C to 50°C (De-rating over 45°C)	
Humidity	0~95% (No condensing)	
Size (W*H*D)	800*2160*800mm 31.5*85*31.5 inches	
Weight	520kg	750kg
Installation	Floor standing	
Other		
CEC efficiency	-	-
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase Reverse,	

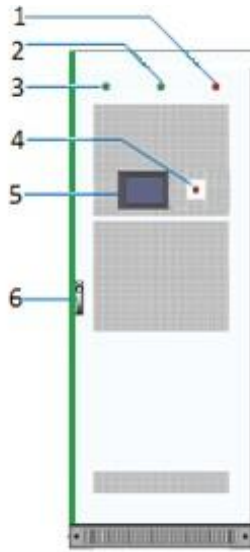


PWG2-50K Efficiency curve

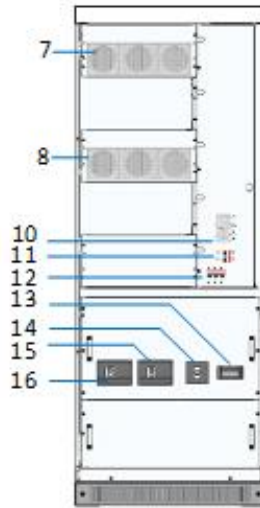


PWG2-100K Efficiency curve

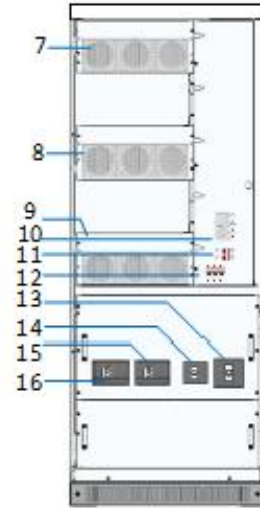
# Appearance



Visible Components of the PCS



with STS module



without STS module

Position	Designation	Description
1	Indicator lights	
2	Indicator lights	
3	Indicator lights	
4	EPO (Emergency Power Off)	
5	Touch Screen	
6	Door handle	
7	PCS-DC (1~2 module(s))	50KW 1 set; 100KW 2 sets;
8	PCS-AC (1~2 module(s))	50KW 1 set; 100KW 2 sets;
9	STS module	Switching device; Only for the models with STS
10	Wiring Terminal	Digital Input and Digital Output
11	AUX power supply switch	
12	SPD switch	
13	Manual Soft Start Switch	Only for the models without STS
Or	AC breaker (Grid)	Only for the models with STS
14	AC breaker (Grid)	Only for the models without STS
Or	AC breaker (Load)	Only for the models with STS
15	Battery switch	
16	PV DC switch	